

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION

TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

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Surface Water

(Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)

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Ground Water

(Issued in accordance with the provisions of Chapter 283, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE November 9, 1989	APPLICATION NUMBER G4-30105	PERMIT NUMBER	CERTIFICATE NUMBER
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NAME
Mack T. Bland, Jr.

ADDRESS (STREET) 216 East 19th	(CITY) Kennewick,	(STATE) Washington	(ZIP CODE) 99337
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PUBLIC WATERS TO BE APPROPRIATED

SOURCE
a well

TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 90	MAXIMUM ACRE-FEET PER YEAR 9
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QUANTITY, TYPE OF USE, PERIOD OF USE

9 acre-feet per year at 90 gpm for group domestic consisting of 9 lots for homes.
This will be a continuous use.

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION-WITHDRAWAL

1900 feet east and 1900 feet south from the northwest corner of Section 15

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SE $\frac{1}{4}$ NW $\frac{1}{4}$	SECTION 15	TOWNSHIP N. 8	RANGE, (E. OR W.) W.M. 30 E.	W.R.I.A. 31	COUNTY Benton
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RECORDED PLATTED PROPERTY

LOT 1	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION) Short Plat #1635
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LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Lot 1 of Short Plat #1635;
Lots 1, 2, 3, and 4 of Short Plat #1634;
Lots 1, 2, 3, and 4 of Short Plat #1636;
SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 15, T. 8 N., R. 30 E.W.M., Benton County, Washington.

DESCRIPTION OF PROPOSED WORKS

An existing well 235 feet deep and 6 inches in diameter. Distribution to nine lots consisting of 4 inch and 3 inch mainlines with 2 inch lines to lots. All pipe is PVC.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:

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COMPLETE PROJECT BY THIS DATE:

April 1, 1993

WATER PUT TO FULL USE BY THIS DATE:

April 1, 1994

REPORT

Background

On November 9, 1989, Mack T. Bland Jr., Kennewick, Washington filed an application for permit to appropriate public ground water. The application was accepted, assigned number G4-30105, and public notice was made. There were no protests received during the 30 day protest period.

Investigation

The following information was obtained from a site inspection conducted by Philip Kerr on November 14, 1991, research of department records, and conversations with the applicant and department staff.

The applicant requests authorization to withdraw 90 gallons per minute (gpm) from an existing well, here after referred to as subject well, to provide a continuous group domestic water supply. The subject well is six (6) inches in diameter and 235 feet deep. The well penetrates brown sand, gravel, cobbles sand, black sand and water at 22 to 27 feet, gravel, black fractured basalt, black basalt hard, black basalt medium, water again at 121 to 137 feet, black hard basalt blue clay, water at 222 feet, and finally hard gray basalt. The author believes subject well is not in continuity with the Columbia River due to its depth and its being sealed to 91.6 feet.

The subject well is located in lot one (1) of short plat #1635 about 1900 feet east and 1900 feet south from the northwest corner of Section 15 within the SE¼NW¼ Section 15, T. 8 N., R. 30 E.W.M. The subject well is fitted with a three (3) horsepower submersible pump connected to a 300 foot four inch PVC main line. The main line then divides into two three inch PVC pipes one south for 220 feet and the other west and north 196 feet. Finally the pipes reduce to two inches to the different lots. The static water level is approximately 24 feet according to the 1989 well log and the pump is located 147 feet down in the well from the surface.

There are several wells in this general area, most being domestic wells that are operating under the Ground Water Code's exemption to the permitting process. These domestic wells range from 25 to 60 feet deep. The deepest wells in the area, other than the subject well, are in the SW¼ of Section 15, T. 8 N., R. 30 E.W.M. and are 85, 125 and 195 feet deep. While these wells may rely upon the same aquifer no impairment should occur due to the distance between wells and different depths.

The property is divided up into nine (9) lots to be developed for houses or mobile homes. Currently there is only one home in the development which appears to be on Lot 4 of Short Plat #1636.

This property has Columbia Irrigation District water available for irrigation and subject well will only provide domestic water for nine (9) lots.

The water requirement for a continuous single domestic supply is 10 gpm and one (1) acre-foot per year. Nine (9) units would therefore need 90 gpm and nine (9) acre-feet per year.

Conclusions

Based on the foregoing information, the following conclusions are made:

Water is available for the proposed beneficial group domestic use.

Granting a permit will not impair existing water rights.

This water use is not detrimental to the public interest.

Recommendations

Based on the above facts and conclusions an instantaneous quantity of 90 gpm and 9 acre-feet per year are recommended for approval for continuous group domestic water. The following provisions apply:

All water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

Installation and maintenance of an access port as described in Ground Water Bulletin No. 1 is required. An air line and gage may be installed in addition to the access port.

At such time that the Department of Ecology determines that regulation and management of the subject waters is necessary and in the public interest, an approved measuring device shall be installed and maintained in accordance with RCW 90.03.360.

Owing to the proximity of neighboring wells, the applicant is reminded of his responsibility toward same and advised that he may be required to regulate his withdrawal and pumping rate if existing rights are injuriously affected.

REPORT BY:

Philip N. Kerr
Philip N. Kerr

DATE:

March 5, 1992

APPROVED BY:

Doug Clausing
Doug Clausing, Section Supervisor

DATE:

3/5/1992

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